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# Review of Medical and Veterinary Entomology

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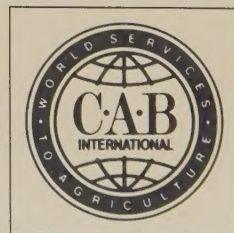
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## Review of Medical and Veterinary Entomology

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Produced by the DIVISION OF ANIMAL HEALTH AND MEDICAL PARASITOLOGY  
in cooperation with the  
INTERNATIONAL INSTITUTE OF ENTOMOLOGY

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1991



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## ERRATA

### Volume 71 (1983)

#### Abstract No.

- 759 for '*A. niveus*' read '*A. niveus* of L.C. Feng (1938)'

### Volume 78 (1990)

#### Abstract No.

- 249 for '*Necrophorus vespilloides*' read '*Nicrophorus vespilloides*'  
 1505 for '*Pachycrepoideus vindemiae*' read '*Pachycrepoideus vindemmiae*'  
 3056 for '*Pachycrepoideus vindemiae*' read '*Pachycrepoideus vindemmiae*'  
 3749 for '*Necrophorus vespilloides*' read '*Nicrophorus vespilloides*'  
 4851 after '*A. formidabilis*' insert '*[Hadronyche formidabilis]*'  
 5853 for '*N. quadripunctatus*' read '*Nicrophorus quadripunctatus*'

### Volume 79 (1991)

#### Abstract No.

- 162 for '*Simulium latium*' read '*Simulium latinum* [*S. velutinum*]'  
 162 after '*S. nitidifrons*' insert '*[S. intermedium]*'  
 171 for 'LECLERQ, M.' read 'LECLERCQ, M.'  
 214 for 'OLIVEIRA, C.M.O.' read 'OLIVEIRA, C.M.B.'  
 236 for '*M. bechsteini*' read '*M. bechsteinii*'  
 236 for '*M. dasyncemae*' read '*M. dasynceme*'  
 236 for '*M. daubentoni*' read '*M. daubentonii*'  
 300 for '*Dolichovespula silvestris*' read '*Dolichovespula sylvestris*'  
 644 for '*Cediospylla*' read '*Cediopsylla*'  
 1244 for '*C. pallidithorax*' read '*C. pallidothorax*'  
 1268 for '*S. africanus*' read '*S. africana*'  
 1268 for '*S. antennatus*' read '*S. antennata*'  
 1269 for '*Sergentomyia africanus*' read '*S. africana*'  
 1269 for '*S. antennatus*' read '*S. antennata*'  
 1310 for '*S. violensis*' read '*S. voilense*'  
 1314 for 'PHILLIPON, B.' read 'PHILIPPON, B.'  
 1482 for '*Latrodectus mactans hasseltii*' read '*Latrodectus hasseltii*'  
 1483 for '*Latrodectus mactans hasseltii*' read '*Latrodectus hasseltii*'  
 1487 for '*Latrodectus mactans hasseltii*' read '*Latrodectus hasseltii*'  
 1557 for '*R. slovakia*' read '*R. slovaca*'  
 1660 for 'MERRIT, R.W.' read 'MERRITT, R.W.'  
 1737 for 'ALEEKSEEV, A.N.' read 'ALEKSEEV, A.N.'



# ERRATA continued

## Volume 79 (1991) continued

### Abstract No.

- 1894 for 'BAZINGER, H.' read 'BANZIGER, H.'
- 1967 for '*Psoroptes cuniculi*' read '*P. cuniculi*'
- 2339 for 'TKACHOV, A.V.' read 'TKACHEV, A.V.'
- 2925 for 'KLUNCINSKI, W.' read 'KLUCINSKI, W.'
- 3067 for 'GOGHOMU, A.' read 'GOGHOMOU, A.'
- 3151 for 'VARMA, R.M.G.' read 'VARMA, M.G.R.'
- 3528 for '*Pachycrepoideus vindemiae*' read '*Pachycrepoideus vindemmiae*'
- 3801 for 'VERHERT, P.D.E.M.' read 'VERHAERT, P.D.E.M.'
- 3942 for '*S. africanus*' read '*S. africana*'
- 3941 for '*S. antennatus*' read '*S. antennata*'
- 4024 for '*Pachycrepoideus vindemiae*' read '*Pachycrepoideus vindemmiae*'
- 4178 for 'GOLIGHTLY, M.C.' read 'GOLIGHTLY, M.G.'
- 4441 for 'RASNITHYN, S.P.' read 'RASNITSYN, S.P.'
- 4893 for 'GASANGAZE, G.B.' read 'GASANZADE, G.B.'
- 4893 for '*P. transcausicus*' read '*P. transcausicus*'
- 5043 for 'STRASSMAN, J.E.' read 'STRASSMANN, J.E.'
- 5079 for 'NUTTAL, P.A.' read 'NUTTALL, P.A.'



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Many other serials were scanned during 1991 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses.

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| Acarologia   | Annales de Parasitologie Humaine et Comparée   |
| Acta Adriatica                                       | Annales de Pathologie  |
| Acta Agriculturae Universitatis Pekinensis           | Annales des Sciences Naturelles, Zoologie et Biologie Animale                        |
| Acta Biologica Hungarica                             | Annali dell'Istituto Superiore di Sanità   |
| Acta Biológica Venezolana                            | Annali della Facoltà di Medicina Veterinaria di Pisa                                 |
| Acta Endocrinologica                                 | Annals of Agricultural Science (Cairo)   |
| Acta Entomologica Bohemoslovaca                      | Annals of Allergy  |
| Acta Entomologica Fennica                            | Annals of Emergency Medicine   |
| Acta Entomologica Musei Nationalis Pragae            | Annals of Entomology   |
| Acta Medica Okayama                                  | Annals of Occupational Hygiene   |
| Acta Medica Veterinaria                              | Annals of Saudi Medicine   |
| Acta Microbiologica Bulgarica                        | Annals of the Entomological Society of America                                       |
| Acta Microbiologica Sinica                           | Annals of the New York Academy of Sciences   |
| Acta Oecologica, Oecologia Applicata                 | Annals of Tropical Medicine and Parasitology   |
| Acta Oecologica, Oecologia Generalis                 | Annual Report - Argentine Ant Control, Department of Agriculture, Western Australia  |
| Acta Parasitologica Polonica                         | Annual Report of the Society of Plant Protection of North Japan                      |
| Acta Physiologica Hungarica                          | Annual Reports in Medicinal Chemistry  |
| Acta Protozoologica                                  | Annual Review of Ecology and Systematics   |
| Acta Scientiarum Naturalium Universitatis Sunyatseni | Annual Review of Entomology  |
| Acta Societatis Zoologicae Bohemoslovaca             | Annual Review of Immunology  |
| Acta Tropica   | Annual Review of Pharmacology and Toxicology   |
| Acta Veterinaria et Zootechnica Sinica               | Annual Review of Public Health   |
| Acta Veterinaria Scandinavica                        | Antiviral Research   |
| Acta Virologica                                      | Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz                           |
| Acta Zoologica                                       | Applied and Environmental Microbiology   |
| Acta Zoologica Hungarica                             | Applied Entomology and Zoology   |
| Acta Zoologica Sinica                                | Applied Geography  |
| Actes des Colloques Insectes Sociaux                 | Applied Microbiology and Biotechnology   |
| Action Vétérinaire                                   | Applied Virology Research  |
| Advances in Cell Culture                             | Aquaculture  |
| Advances in Disease Vector Research                  | Aquaculture and Fisheries Management   |
| Advances in Insect Physiology                        | Aquatic Insects  |
| Adverse Drug Reactions and Acute Poisoning Reviews   | Aquatic Toxicology   |
| Agri-Practice  | Arab World Agribusiness  |
| Agricultural and Biological Chemistry                | Archiv für Experimentelle Veterinärmedizin   |
| Agricultural Research (Washington)                   | Archiv für Hydrobiologie   |
| Agricultural Research Review                         | Archiv für Hydrobiologie, Supplementband   |
| Agriculture, Ecosystems & Environment                | Archiv für Hydrobiologie, Supplementband, Monographische Beiträge                    |
| AIDS Research and Human Retroviruses                 | Archives de l'Institut Pasteur de Madagascar   |
| Alexandria Journal of Agricultural Research          | Archives de l'Institut Pasteur de Tunis  |
| Allergologia et Immunopathologia                     | Archives des Maladies Professionnelles de Médecine du Travail et de Sécurité Sociale |
| Allergologie   | Archives of Dermatology  |
| Allergy (Copenhagen)                                 | Archives of Environmental Contamination and Toxicology                               |
| Allergy Proceedings                                  | Archives of Environmental Health   |
| Amazoniana   | Archives of Insect Biochemistry and Physiology                                       |
| American Bee Journal                                 | Archives of Toxicology   |
| American Journal of Epidemiology                     | Archives of Virology   |
| American Journal of Forensic Medicine and Pathology  | Archivos Argentinos de Dermatología  |
| American Journal of Gastroenterology                 | Archivos de Medicina Veterinaria   |
| American Journal of Industrial Medicine              | Arhiv za Higijenu Rada i Toksikologiju   |
| American Journal of Nursing                          | Arkansas Farm Research   |
| American Journal of Ophthalmology                    | Arquivo Brasileiro de Medicina Veterinária e Zootecnia                               |
| American Journal of Public Health                    | Arquivos da Escola de Medicina Veterinária da Universidade Federal da Bahia          |
| American Journal of Tropical Medicine and Hygiene    | Arquivos da Faculdade de Veterinária, UFRGS  |
| American Journal of Veterinary Research              | Arquivos de Biologia e Tecnologia  |
| American Naturalist                                  | Arquivos de Gastroenterologia  |
| American Review of Respiratory Disease               | Arquivos do Instituto Biológico (São Paulo)  |
| American Scientist                                   | Arzneimittel Forschung   |
| American Zoologist                                   | Ärztliche Laboratorium   |
| Anais Brasileiros de Dermatologia                    | Assiut Journal of Agricultural Sciences  |
| Anais da Sociedade Entomológica do Brasil            | Atas da Sociedade de Biologia do Rio de Janeiro                                      |
| Anales de Biología                                   | ATIP Working Paper   |
| Anales del Instituto de Biología. Serie Zoología     | Attini   |
| Analytica Chimica Acta                               | Australian and New Zealand Journal of Medicine                                       |
| Analytical Biochemistry                              | Australian and New Zealand Journal of Surgery  |
| Analytical Letters                                   | Australian Entomological Magazine  |
| Animal Behaviour                                     | Australian Family Physician  |
| Annales de l'Institut Pasteur, Microbiologie         | Australian Journal of Agricultural Research  |
| Annales de la Société Belge de Médecine Tropicale    | Australian Journal of Biotechnology  |
| Annales de la Société Entomologique de France        |  |
| Annales de Limnologie                                |  |
| Annales de Médecine Interne                          |  |
| Annales de Médecine Vétérinaire                      |  |

- Australian Journal of Marine and Freshwater Research  
 Australian Journal of Zoology  
 Australian Veterinary Journal  
 Australian Wildlife Research  
 Bangladesh Medical Research Council Bulletin  
 Bangladesh Veterinarian  
 Beef Cattle Research in Texas  
 Behavioral Ecology and Sociobiology  
 Berliner und Münchener Tierärztliche Wochenschrift  
 Biochemical and Biophysical Research Communications  
 Biochemical Genetics  
 Biochemical Journal (London)  
 Biochemical Pharmacology  
 Biochemical Systematics and Ecology  
 Biochemistry (Washington)  
 Biochemistry International  
 Biochimica et Biophysica Acta, Biomembranes  
 Biochimica et Biophysica Acta, Gene Structure and Expression  
 Biochimica et Biophysica Acta, General Subjects  
 Biochimica et Biophysica Acta, Lipids and Lipid Metabolism  
 Biochimica et Biophysica Acta, Protein Structure and Molecular Enzymology  
 BioEssays  
 Biogenic Amines  
 Biológia (Bratislava)  
 Biological Bulletin  
 Biological Chemistry Hoppe-Seyler  
 Biological Conservation  
 Biological Cybernetics  
 Biological Journal of the Linnean Society  
 Biological Wastes  
 Biologicheskii Zhurnal Armenii  
 Biology of the Cell  
 Biološki Vestnik  
 Biomathematics  
 Biomedical and Environmental Sciences  
 Biomedical Chromatography  
 Biomedical Research  
 Biometrics  
 Bioorganicheskaya Khimiya  
 Biophysical Journal  
 Biopolymers  
 BioScience  
 Biotechnology and Applied Biochemistry  
 Biotechnology Letters  
 Biotehnologiya  
 Biotropica  
 Bodenkultur  
 Boletim da Sociedade Portuguesa de Entomologia  
 Boletim de Indústria Animal  
 Boletim do Museu Nacional. Nova Série, Zoologia  
 Boletín Chileno de Parasitología  
 Boletín de la Asociación Española de Entomología  
 Boletín de la Dirección de Malaria y Saneamiento Ambiental  
 Boletín de la Oficina Sanitaria Panamericana  
 Bollettino del Museo Civico di Storia Naturale di Venezia  
 Bollettino dell'Istituto di Entomologia "Guido Grandi" della Università degli Studi di Bologna  
 Bollettino della Società Entomologica Italiana  
 Bollettino di Zoologia  
 Brain Research  
 Brazilian Journal of Medical and Biological Research  
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 Brimleyana  
 British Journal of Entomology and Natural History  
 British Journal of General Practice  
 British Journal of Industrial Medicine  
 British Journal of Ophthalmology  
 British Journal of Pharmacology  
 British Veterinary Journal  
 Buletini i Shkencave Zoetnikne e Veterinare  
 Buletinul Institutului Agronomic Cluj-Napoca. Seria Zootehnică și Medicină Veterinară  
 Bulletin & Annales de la Société Royale Belge d'Entomologie  
 Bulletin - Agricultural Experiment Station, University of Florida  
 Bulletin - Agricultural Experiment Station, University of Tennessee  
 Bulletin d'Écologie  
 Bulletin de l'Académie Nationale de Médecine  
 Bulletin de l'Institut Royal des Sciences Naturelles de Belgique, Entomologie  
 Bulletin de la Société de Pathologie Exotique  
 Bulletin de la Société de Pathologie Exotique et de ses Filiales  
 Bulletin de la Société Entomologique de France  
 Bulletin de la Société Française de Parasitologie  
 Bulletin de la Société Zoologique de France  
 Bulletin des G.T.V.  
 Bulletin Mensuel de la Société Vétérinaire Pratique de France  
 Bulletin of Animal Health and Production in Africa  
 Bulletin of Entomological Research  
 Bulletin of Entomology (New Delhi)  
 Bulletin of Environmental Contamination and Toxicology  
 Bulletin of Marine Science  
 Bulletin of the Agricultural Chemicals Inspection Station, Tokyo  
 Bulletin of the American Museum of Natural History  
 Bulletin of the British Museum (Natural History), Historical Series  
 Bulletin of the Entomological Society of America  
 Bulletin of the Entomological Society of New Zealand  
 Bulletin of the European Association of Fish Pathologists  
 Bulletin of the Institute of Maritime and Tropical Medicine in Gdynia  
 Bulletin of the Institute of Zoology, Academia Sinica  
 Bulletin of the Irish Biogeographical Society  
 Bulletin of the Pan American Health Organization  
 Bulletin of the Society for Vector Ecology  
 Bulletin of the World Health Organization  
 Byulleten' Vsesoyuznogo Instituta Éksperimental'noi Veterinari  
 Cahiers de Biologie Marine  
 Cahiers ORSTOM, Entomologie Médicale et Parasitologie  
 Caldasia  
 California Fish and Game  
 Canadian Entomologist  
 Canadian Field-Naturalist  
 Canadian Journal of Agricultural Economics  
 Canadian Journal of Botany  
 Canadian Journal of Fisheries and Aquatic Sciences  
 Canadian Journal of Microbiology  
 Canadian Journal of Ophthalmology  
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 Canadian Journal of Surgery  
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 Canadian Journal of Zoology  
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 Caryologia  
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 Cell and Tissue Research  
 Cell Biology and Toxicology  
 Cell Biology International Reports  
 Cell Differentiation  
 Cellular and Molecular Neurobiology  
 Centaur (Mylapore)  
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 Ceres (Rome)  
 Československá Epidemiologie, Mikrobiologie, Imunologie  
 Ceylon Journal of Science, Biological Sciences  
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 Chemical and Pharmaceutical Bulletin  
 Chemical Research in Toxicology  
 Chemistry and Ecology  
 Chemistry of Natural Compounds  
 Chemosphere  
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 China Public Health  
 Chinese Journal of Biological Control  
 Chinese Journal of Biotechnology  
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 Chinese Journal of Microbiology and Immunology  
 Chinese Journal of Parasitic Disease Control  
 Chinese Journal of Parasitology & Parasitic Diseases  
 Chinese Journal of Radiology  
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 Chinese Medical Journal  
 Chromosoma  
 Ciencia y Técnica en la Agricultura, Veterinaria  
 Clay Research  
 Cleveland Clinic Journal of Medicine  
 Clinical and Experimental Allergy  
 Clinical Pharmacy  
 Clinical Reviews in Allergy  
 Clinical Therapeutics  
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 Coletânea do Instituto de Tecnologia de Alimentos  
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 Comunicações Científicas da Faculdade de Medicina Veterinária e Zootecnia da Universidade de São Paulo  
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 Contributions from Shanghai Institute of Entomology  
 Copeia  
 Cornell Veterinarian  
 CRC Critical Reviews in Microbiology  
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 Crustaceana, Supplement  
 Cultivar (Paris)  
 Current Contents. Agriculture, Biology & Environmental Sciences  
 Current Genetics  
 Current Microbiology  
 Current Opinion in Immunology  
 Current Opinion in Infectious Diseases  
 Current Science  
 Current Topics in Environmental and Toxicological Chemistry  
 Cutis (New York)  
 Cytobios  
 Cytologia  
 Cytotechnology  
 Dansk Pelsdyravt  
 Dansk Veterinærtidsskrift  
 Dermatologica  
 Deutsche Medizinische Wochenschrift  
 Developments in Industrial Microbiology  
 Diagnostic Microbiology and Infectious Disease  
 Disasters  
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 FEMS Microbiology Ecology  
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 Gazette Médicale  
 Gene  
 General and Applied Entomology  
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 General Pharmacology  
 Genetica  
 Genetical Research  
 Genetics, Selection, Evolution  
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 Genome  
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 Hereditas (Landskrona)  
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 Histochemical Journal  
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 HRC, Journal of High Resolution Chromatography  
 Human & Experimental Toxicology  
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 Practitioner  
 Praktische Tierarzt  
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 Pratique Vétérinaire Équine  
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 Reviews of Environmental Contamination and Toxicology  
 Revista Argentina de Micología  
 Revista Brasileira de Biologia  
 Revista Brasileira de Entomologia  
 Revista Brasileira de Genética  
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 Revista Cubana de Medicina Tropical  
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 Revista de Saúde Pública  
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 Revue de Zoologie Africaine  
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 Revue Française d'Entomologie  
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   cale et Subtropicale et de Santé Publique  
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 Trudy Zoologicheskogo Instituta, Akademii Nauk SSSR  
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 Wissenschaftliche Zeitschrift - Martin-Luther-Universität Halle-Wittenberg, Mathematisch-Naturwissenschaftliche Reihe  
 Word Animal Review  
 Working Paper, Swedish University of Agricultural Sciences, International Rural Development Centre  
 World Health Organization, TDR/FIELDMAL/SC/AMAZ  
 World Journal of Microbiology & Biotechnology  
 World's Poultry Science Journal  
 Wuyi Science Journal  
 Xenobiotica  
 Zeitschrift für Angewandte Zoologie  
 Zeitschrift für die Gesamte Hygiene und ihre Grenzgebiete  
 Zeitschrift für Hautkrankheiten  
 Zeitschrift für Jagdwissenschaft  
 Zeitschrift für Klinische Medizin  
 Zeitschrift für Naturforschung. B, Chemical Sciences  
 Zeitschrift für Rechtsmedizin  
 Zentralblatt für Bakteriologie  
 Zentralblatt für Mikrobiologie  
 Zentralblatt für Veterinärmedizin, B  
 Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii.  
 Zhurnal Obshchei Biologii  
 Zimbabwe Veterinary Journal  
 Zoological Catalogue of Australia  
 Zoological Science  
 Zoologicheskii Zhurnal  
 Zoologische Jahrbücher, Abteilung für Systematik, Ökologie und Geographie der Tiere  
 Zoologische Jahrbücher, Abteilung für Allgemeine Zoologie und Physiologie der Tiere  
 Zoologischer Jahrbücher. Abteilung für Anatomie und Ontogenie der Tiere  
 Zootekhniya











## INFORMATION SERVICES AND PUBLICATIONS

Almost 100 scientists/linguists in CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 12,000 serials and many other publications are scanned, and over 130,000 bibliographic records are compiled each year. From this computerized database, known as CAB ABSTRACTS, is derived a wide range of information services and products in printed and electronic form, designed to meet a variety of customer needs.

### ABSTRACT JOURNALS

#### Animal Science and Production

*Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts and Reviews, Series B—Livestock Feeds and Feeding; Pig News and Information; Poultry Abstracts.*

#### Veterinary Science and Parasitic Diseases

*Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical and Veterinary Entomology; Review of Medical and Veterinary Mycology; Veterinary Bulletin.*

#### Crop Science and Production

*Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation and Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils and Fertilizers; Sorghum and Millets Abstracts; Soyabean Abstracts; Sugar Industry Abstracts; Wheat, Barley and Triticale Abstracts.*

#### Forestry

*Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.*

#### Crop Protection

*Biocontrol News and Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.*

#### Economics, Development and Sociology

*Leisure, Recreation and Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics and Rural Sociology Abstracts.*

#### Machinery and Buildings

*Agricultural Engineering Abstracts.*

#### Human Nutrition

*Nutrition Abstracts and Reviews, Series A—Human and Experimental.*

#### Biotechnology/Biodeterioration

*AgBiotech News and Information; Biodeterioration Abstracts.*

In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

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### CAB Alerts

This is a monthly SDI service providing subscribers with the search results from standard profiles chosen by CABI. Numerous titles are available. Output is available on computer printout posted by airmail.

### DOCUMENT DELIVERY SERVICE

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

### BOOKS AND SERIAL PUBLICATIONS

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research*, *Outlook on Agriculture*, *Seed Science Research*, *Index of Current Research on Pigs*, *Distribution Maps of Pests*, *Distribution Maps of Plant Diseases*, *Bibliography of Systematic Mycology*, *Descriptions of Pathogenic Fungi & Bacteria*, *Index of Fungi*, and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

For further information, contact:

**CAB International**, Marketing & Distribution Services, Wallingford, Oxon OX10 8DE, UK  
Telephone: (0491) 32111  
Telex: 847964 (COMAGG G)  
Telefax: (0491) 33508

or

**CAB International**, 845 North Park Avenue  
Tucson, Arizona 85719, USA  
Tel: 800/528-4841 (Toll-free) or 602/621-7897

or

**CAB International – Asia**  
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50760 Kuala Lumpur, Malaysia  
Tel: 010 603 2552111/2552922  
Telex: 28031 MA CABI Fax: (03) 255 1888

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Flagstaff Dev, Long Circular Road, St. James, Port-of-Spain, Trinidad

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## C·A·B INTERNATIONAL

Wallingford, Oxon OX10 8DE, UK

Telephone: (0491) 32111 Telecom Gold/Dialcom: 84: CAU001

Telex: 847964 (COMAGG G) Fax: (0491) 33508

**Director General:** Don Mentz BAgrSci, BEcon, FAIAS

**Director, Information Services:** C.P. Ogbourne BSc, PhD

**Director, Scientific Services:** D.J. Greenland MA, DPhil, DAgrSc, FIBiol

**Director, Information Technology Services:** J.H. Gilmore BSc, MACS

**Director, Administrative Services:** T. Martin FCA

### The Organization

CAB International (CABI) is an international, inter-governmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments wishing to participate. Established in 1928, the organization provides information, scientific and development services for agriculture and allied disciplines throughout the world.

### Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting and indexing by almost 100 scientists/linguists in the following five divisions:

- Animal Health & Medical Parasitology
- Animal Production & Human Nutrition
- Crop Protection & Genetics
- Crop Production
- Natural Resources, Forestry & Economics

Further material is acquired and processed by collaborating or contracted organizations.

Abstract journals and electronic products derived from the database, and online access to it, provide unique sources of information for research scientists, development planners, educators and students.

The Information Services also publish primary journals and books, and offer training for information professionals, especially in developing countries.

### Scientific Services

CABI's Scientific Services consist of four institutes and two support services:

#### *International Institute of Entomology (IIE),*

Director, Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

#### *International Mycological Institute (IMI),*

Director, Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

#### *International Institute of Parasitology (IIP),*

Director, Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

#### *International Institute of Biological Control (IIBC),*

Director, Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

#### *Development Services (CDS),*

Head, Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services, and also coordinate CABI's training activities.

#### *Library Services,*

Manager, Mr C.J. Hamilton, have their headquarters with IIBC at Silwood Park, where the main Library is held, with additional literature collections at IMI, IIP, CDS and CABIC. Library Services operate document delivery and translation services.

### Information Technology Services (ITS)

ITS provide computing resources and services to all parts of CABI. A central computing facility is maintained with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and information retrieval and PAGER for typesetting.

The staff of 25 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CAB ABSTRACTS database and associated functions, plus accessions control, subscription management and electronic publishing.

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